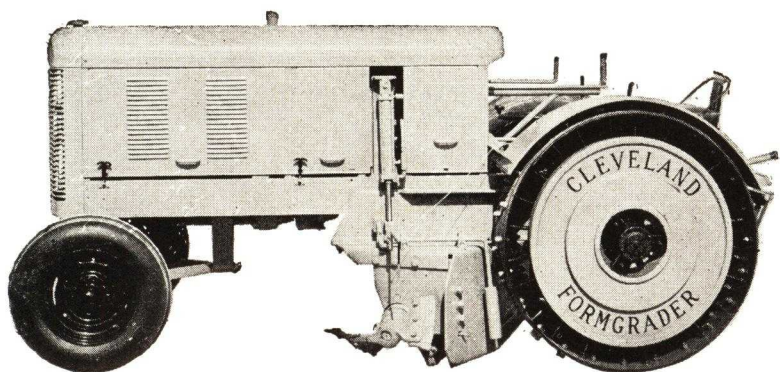
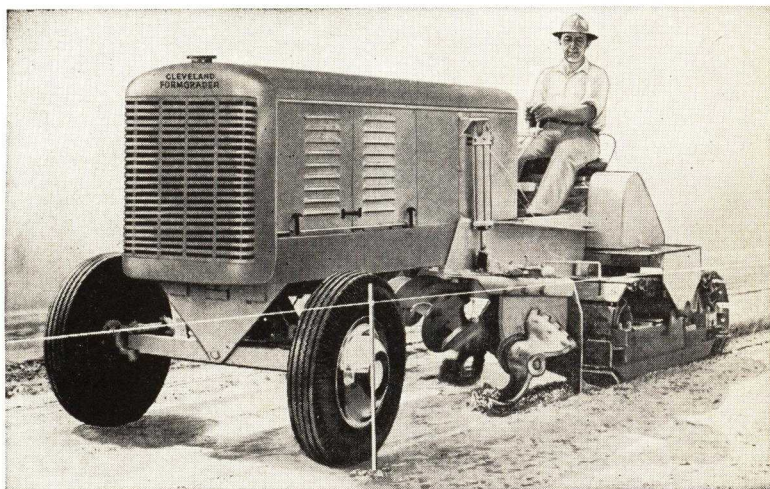


# CLEVELAND-FORMGRADER EQUIPMENT

## The Cleveland formgrader

A machine to cut form trenches quickly and accurately. Only one operator and a Formgrader is needed to cut the form trenches for a whole day's run. A machine with a fine record of performance on such jobs as the Pennsylvania, Ohio and Indiana Turnpikes. Now equipped with a hydraulically operated cutter lift bar and power steering.

Through means of a pendulum controlled line gauge the operator is able to cut the form trench to the proper depth regardless of unevenness of the grade. The accuracy of the form trench is produced by following the mark on a hair spring line gauge and holding it against the grade.

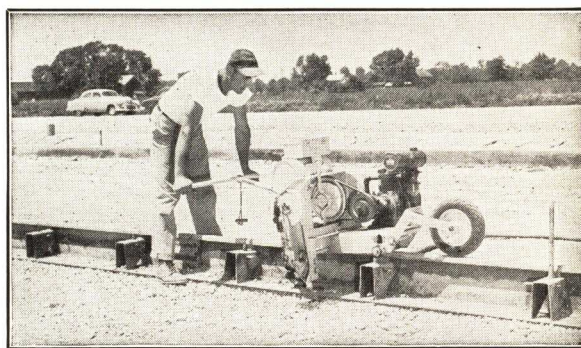


## Specifications

Weight of machine approximately 6500 pounds. Operated by a 55 horsepower governor controlled gas engine: available with either a 12-inch wide traction wheel or a crawler track drive. Hydraulically operated cutter lift bar and power steering. Machine cuts an 18-inch wide form trench, thus allowing for even the widest base forms.

## Form tamper

A machine that tamps the earth under both sides of the forms so as to prevent settling and at the same time sprays form oil on the inside of the form. A Form Tamper with just one man operating it, in a few hours will tamp and oil the forms for a full days run. Made in right or left hand models. Now has fast simple adjustments to change, in just a few minutes, either the height or width to accommodate different size forms. The Form Tamper meets State Specifications—Insures accuracy, eliminates costly, time consuming hand tamping. Does higher quality work at lower cost.



## Specifications

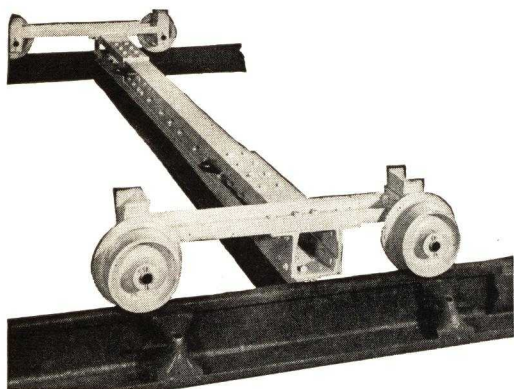
Both models powered with a Briggs and Stratton 3 horsepower engine with crank starter. Equipped with a gravity feed form oil tank. Oil sprayed on forms by engine exhaust. Equipped with hinged pneumatic rubber tired transportation wheel suspended to fold back under machine in central position so as to distribute weight and make for ease of handling. Equipped with tampers which operate simultaneously on ball and socket type bearings, spring actuated. Travels on forms 25 feet per minute. Weight of machine on forms 385 pounds.





# CLEVELAND-FORMGRADER EQUIPMENT

## Junior trailgrader

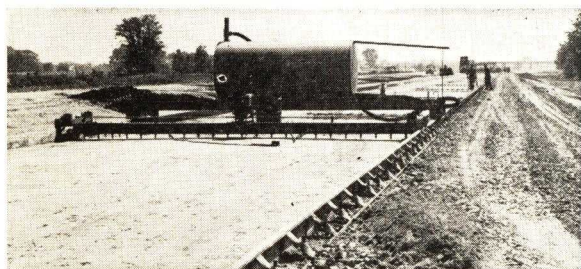


A machine that finishes the subgrade to exact contour just before the concrete is placed. Adjustable draw bars or cables are furnished for pulling. Ideal for use where a grader is needed to do the job and yet the equipment should be light and easy to handle.

### Specifications

Frame made of heavy H column giving strength and rigidity. Adjustable vertically to 16 inches. Can be extended 4 feet. Blades are of high carbon steel, heat treated, single edge. Cutting blades are mounted with bolts through slotted holes thus allowing for setting to crown. Wheels are extra heavy with deep flanges and are run on oversize axles. Grease reservoirs in each wheel assures ample lubrication. Weight of machine varies according to size from 1200 pounds to 1850 pounds. Available in combination road widths from 10 feet to 22 feet.

## Subgrade scratch template



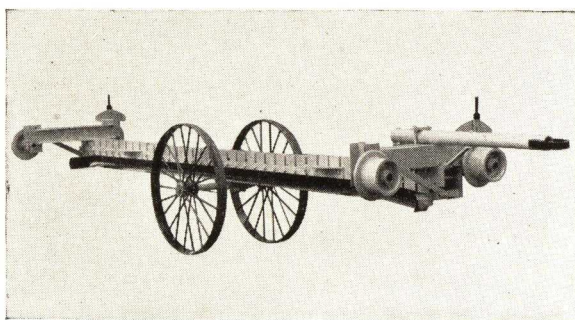
A machine that, when run between the forms the pins scratch the grade showing whether or not it conforms to the pre-set crown specifications.

This machine is unusually accurate because of its rugged, sagless construction and weight. The pins are strong, bend proof and are easily adjusted to the crown requirements.

### Specifications

Side trucks allow the Template to roll easily and the wheels have machined treads for accuracy. The beam is adjustable vertically at the side trucks up to 16 inches, (greater adjustments available upon request) thus allowing the machine to meet all conditions of pavement thickness. Extensions can be had in 1 foot or 3 foot increments to increase width of machine 5 feet. Available in combination road widths 10 feet to 30 feet.

## Heavy duty trailgrader



A machine that finishes the subgrade to exact contour just before the concrete is placed. Draw bars or cables are furnished for pulling.

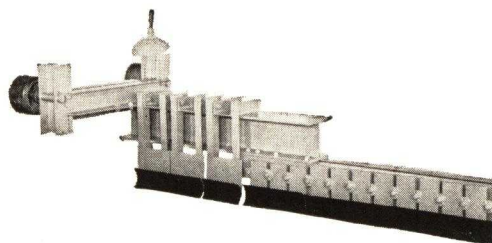
This machine is well built and designed for efficient economical and lasting service.

### Specifications

Frame made of heavy H-Beam and ship channels. Blades are dish type made from high carbon steel and treated for maximum wear and cutting ability. Blades have a double cutting feature which reduces replacement costs by half. Blades are adjustable to conform to crown specifications. Vertical adjustment of 16 inches provided at each end truck. (Greater adjustments are available upon request.) In addition, rear wheels have a segment plate that allows for even finer vertical adjustment. The machine can be extended 4 feet. Machines 20 feet in width and over, can be extended 6 feet. Machine has eccentric axles on rear. Transportation wheels standard equipment. Weight of the machine varies according to size from 3100 pounds to 4700 pounds. Available in combination road widths from 10 feet to 30 feet.

## Heavy duty trailgrader

For interchange subgrading



For use where width changes quickly. Equipped with hinged 1 foot sections on one end to use as required.

### Wheels

All types available for your equipment. Ask for Bulletin 5369.



# CLEVELAND-FORMGRADER EQUIPMENT

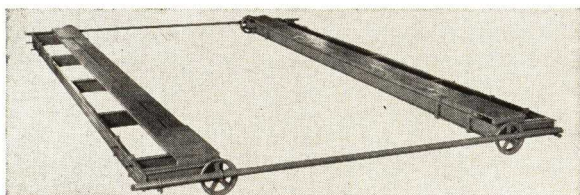
## Bridges

### Single finishing bridge

A single platform bridge to span the forms used for finishing slab, as a cross over or to carry water or other equipment. Ask for Bulletin 5367.

### Specifications

Mounted on four single flanged 12 inch diameter wheels. Deck consists of two 8-inch planks securely fastened to a steel channel frame. Wheels are mounted in telescopic end truck assemblies, adjustable to 5 feet total extension. Available in combination road widths from 10 to 30 feet.



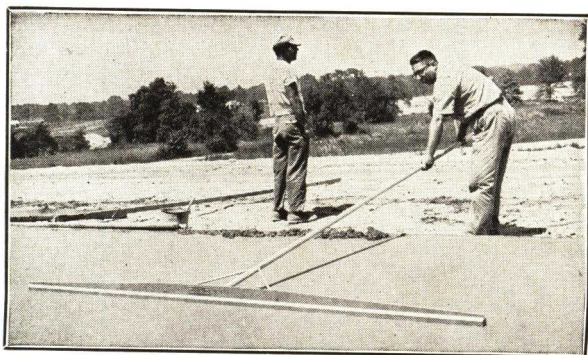
### Double longitudinal bridge

Consists of two single bridges tied together by means of two 2-inch pipes 20 feet long. This bridge can be used for working a bull float or for edging center joints.

### Burlap bridge

A single platform utility bridge consisting of a tongue and groove wood deck 7 feet wide. Used for carrying and spreading burlap, curing material, carrying water, tool boxes, etc. All bridges are available in combination road widths 10 to 30 feet. Ask for Bulletin 5367.

## Straight edges—aluminum



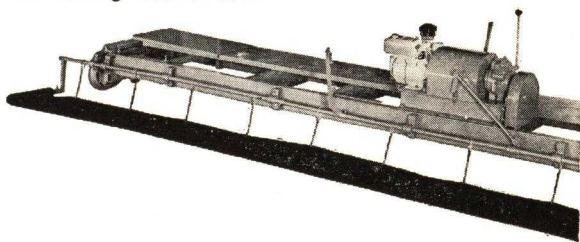
Light weight, durable and highly accurate tools, easy to handle that assure accuracy when checking the finished slab.

### Specifications

Special alloy aluminum blades weighing 4 pounds. The handles are made of seamless alloy aluminum tubing and a 12 foot handle weighs only 3½ pounds. Handles fasten directly into the blade and are supported by aluminum braces on each side. A symmetrical box section and durable thick web have been combined with reinforced top to give unusual strength. Available with either flat or round bottom. Blades are 10, 12, 14 and 16 feet long. Handle lengths are 12, 14 and 16 feet long.

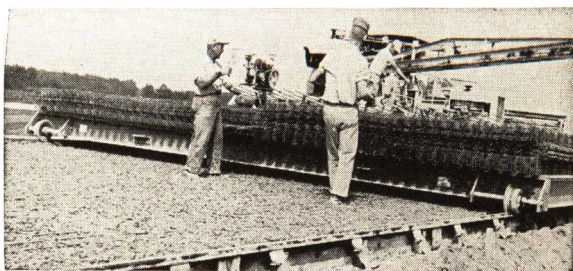
## Power traction bridge

With belting mechanism



The Single, Double and Burlap Bridges are available with Power Traction consisting of a 4 HP gas engine and reversing transmission that propels the bridge either forward or reverse with a single control. Also available on all bridges is an automatic Belting Mechanism that operates off the Power Traction providing an oscillating motion of the float belt.

## Heavy duty mesh bridge



Reinforcement mesh and dowels are loaded on this Bridge at the start of the day's operations. As the paving train moves forward, two men unload the mesh and dowels and lay in place. An automatic Dowel Pin Dropper accessory is available. Mesh Bridges are furnished for towing by the Spreader or Strike-off machine, or furnished complete with Power Traction. Carrying capacity up to 10 tons. Has 12 feet wide deck and available in combination road widths from 10 to 30 feet.

## Straight edges—steel



A rigid economical durable tool that assures accuracy. Ideal for dragging off high spots and for checking the slab.

### Specifications

Blades are made of special steel, formed to meet the requirements of unusual strength, accuracy and light weight. A 10 foot blade with a 12 foot handle weighs only 12 pounds. Available with either flat or round bottom. The standard blade is 10 foot with a 12 foot handle. However, also available in 12, 14 and 16 foot blade lengths and 14 foot and 16 foot handle lengths.



# CLEVELAND-FORMGRADER EQUIPMENT

## Alum-mag floats

Lightweight finishing tool for smoothing out irregularities in the finishing of the slab. Blade is aluminum-magnesium alloy extrusion with heat treated surface that will outwear ordinary steel. Furnished 8 inches wide by 24 inch, 36 inch or 48 inch blade lengths with aluminum handles from 6 to 16 feet long. Ask for Bulletin 5364.

## Aluminum T darby

A light but sturdy tool for smoothing concrete. Also can be used on asphalt. 3-inch wide aluminum alloy T shape blade 2 to 10 feet long with aluminum or steel handles 6 to 16 feet long. Ask for Bulletin 5369.

## Steel lutes

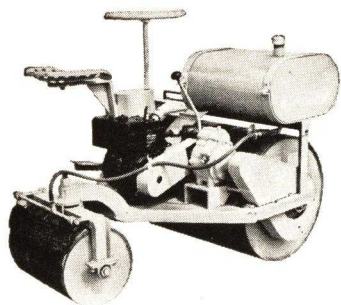
All steel, ideal for cutting down high spots. Available in 6, 8 and 10 feet blade lengths with handles 12 to 16 feet long. Weight of 10 foot Lute with 12-foot handle is 27½ pounds. Ask for Bulletin 5369.

## Pull brooms



For use when specifications call for concrete to be "broom finished". Brooms are of two types: 2 row Bass fibre or 3 row Bassine fibre, 24 inches long with fibres 4½ inches long. The Bassine is available 36 inches long. Adjustable aluminum holders with aluminum handles or malleable iron holders with steel handles, 12 to 16 feet long.

## Powerroll

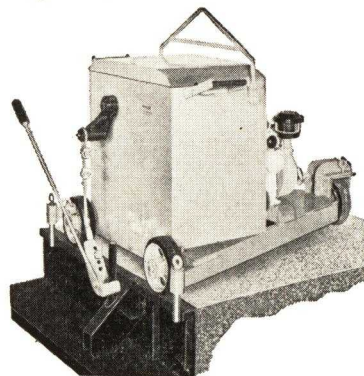


For black top and patching work on driveways, sidewalks and parking lots, etc. The Powerroll is extremely maneuverable and ideal for rolling those "hard to get at" places. A simplified transmission makes this an easy to use, versatile piece of equipment. Water tank assembly optional.

### Specifications

Equipped with 4 HP air cooled 4 cycle gasoline engine, forward and reverse transmission and foot brake. The main drum is ¾ inch plate 24 inch diameter, 3 feet wide and the steering drum is 14 inches ODx20 inches wide. The gross weight is ½ ton.

## Power pin puller



Pulls up to 25 pins per minute. Needs only one man to operate. Eliminates damaged forms or bent pins. Equipped with 4 HP gas engine. Mounted on rubber tires. Pulling load is on form—never on concrete. Job proven. Operated from either side without changes and goes in either direction. Only a light pressure needed to move from pin to pin. A self propelled model is available for dual pocket or airport type forms.

## Form and stake puller

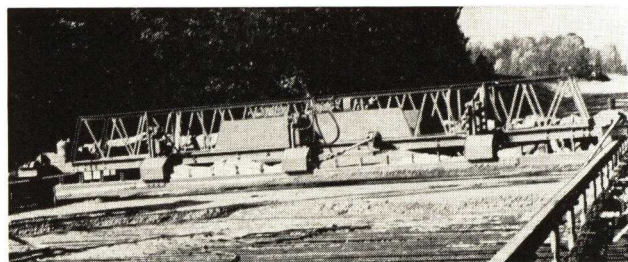
Non-mechanical. Reinforced oak handle, steel frame, pneumatic or cast rubber wheels, ask for bulletin 5363.

## All steel bull float

For smoothing irregularities from surface after finishing machines have been used and before concrete has set. Equipped with adjustable plow handles it is available in 8, 10 and 12-inch widths and lengths of 10, 12, 14 and 16 feet. Ask for Bulletin 5364.

## Toggle action floats or trowels

Excellent tools for concrete finishing. They have double action floating by means of toggle type attachment. All steel 6 inches wide by 18, 24 or 36 inches long with handles from 6 to 16 feet long. Ask for Bulletin 5364.



## Finishing machine

For finishing concrete bridge decks making the bridge as smooth as the highway itself. Designed with the oscillating screed principle incorporating sufficient strength with minimum weight. This machine can be converted to highway or street finishing in a few hours by replacing wheel assemblies.

### Specifications

Equipped with 18 HP air-cooled engine it is available to 55 feet long. Screed adjustable to any crown. Double acting hydraulic screed lift. Four speeds forward and reverse. Four-speed independent screed drive. Optional equipment includes double screed, drag float and burlap drag. Track and adjustable supports are available for bridge finishing.